

Claim Amendments:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A superconducting article, comprising:
a substrate having a first surface and a second surface opposite the first surface, the
substrate including a plurality of indicia provided on the first surface spaced apart
along a length of the substrate at a constant pitch; and
a superconductor layer overlying the second surface.
2. (Original) The superconductor article of claim 1, wherein the article is a
superconducting tape.
3. (Original) The superconducting article of claim 2, wherein the substrate has an aspect
ratio of not less than 10^3 .
4. (Original) The superconducting article of claim 2, wherein the substrate has an aspect
ratio of not less than 10^4 .
5. (Currently Amended) The superconducting article of claim 1, wherein the ~~indicia are
spaced apart along the substrate at a generally constant interval~~ pitch is within a range of about
0.5 m to 100 m.
6. (Currently Amended) The superconducting article of claim 1, wherein the indicia are
~~spaced apart along the substrate at a constant interval along substantially the entire length of the~~
substrate.
7. (Original) The superconducting article of claim 1, wherein the indicia are present only
along the first surface, and do not extend into the second surface.

8. (Original) The superconducting article of claim 1, wherein the indicia are made by at least one process from the group consisting of: laser scribing, mechanical etching, chemical etching, ink printing, plasma etching, or ion beam etching.

9. (Original) The superconducting article of claim 1, wherein the indicia are made by a material subtractive process such that the indicia comprise recesses in the first surface.

10. (Original) The superconducting article of claim 1, wherein each indicia comprises an indicia set, each indicia set including position identifier.

11. (Original) The superconducting article of claim 10, wherein the position identifier comprises a bar code.

12. (Original) The superconducting article of claim 10, wherein the position identifier includes a 2-dimensional pattern.

13. (Original) The superconducting article of claim 10, wherein the position identifier comprises an alphanumeric code.

14. (Currently Amended) ~~The A superconducting article of claim 10, wherein each~~
comprising;
a substrate having a first surface and a second surface opposite the first surface, the
substrate including a plurality of indicia provided on the first surface spaced apart
along a length of the substrate, each indicia comprising an indicia set including a
unique position identifier along the substrate is unique; and
a superconductor layer overlying the second surface.

15. (Original) The superconducting article of claim 10, wherein each indicia set further includes a fiducial for positioning the article.

16. (Original) The superconducting article of claim 15, wherein the fiducial is adapted for detection by an optical imaging system.

17. (Original) The superconducting article of claim 16, wherein the fiducial comprises a marking consisting of at least one of the following shapes: a star, concentric circles, and a crosshair.

18. (Original) The superconducting article of claim 10, wherein each indicia set further includes a lot identifier.

19. (Original) The superconducting article of claim 18, wherein the lot identifier includes manufacturing or processing date data.

20. (Currently Amended) The superconducting article of claim 1, wherein the superconductor layer comprises a high temperature superconductor material, having a critical temperature T_c not less than about 77 K.

21. (Original) The superconducting article of claim 1, wherein the superconductor material comprises $REBa_2Cu_3O_{7-x}$, wherein RE is a rare earth element.

22. (Original) The superconducting article of claim 21, wherein the superconductor material comprises $YBa_2Cu_3O_7$.

23. (Original) The superconducting article of claim 1, further comprising a buffer layer provided between the superconductor layer and the substrate.

24. (Original) The superconductor article of claim 23, wherein the buffer layer includes at least one buffer film, the buffer film comprising a biaxially textured material having generally aligned crystals both in-plane and out-of-plane of the film.

25. (Original) The superconducting article of claim 1, further comprising a noble metal layer overlying the superconductor layer.

26. (Original) The superconducting article of claim 25, wherein the noble metal layer comprises silver.

27. (Canceled)

28. (Original) The superconducting article of claim 1, wherein the article is a power device comprising a superconductive tape, the superconductive tape comprising said substrate and said superconductive layer.

29. (Original) The superconducting article of claim 28, wherein the power device is a power cable, said power cable comprising a plurality of superconductive tapes.

30. (Original) The superconducting article of claim 29, further comprising a conduit for passage of coolant fluid.

31. (Original) The superconducting article of claim 30, wherein the superconductive tapes are wrapped around the conduit.

32. (Original) The superconducting article of claim 29, wherein the power cable comprises a power transmission cable.

33. (Original) The superconducting article of claim 29, wherein the power cable comprises a power distribution cable.

34. (Original) The superconducting article of claim 28, wherein the power device is a power transformer, the power transformer comprising a primary winding and a secondary winding, wherein at least one of the primary winding and secondary winding is comprised of said superconductive tape.

35. (Original) The superconducting article of claim 34, wherein the secondary winding has a fewer number of windings than the primary winding, for reducing voltage.

36. (Original) The superconducting article of claim 34, wherein the primary winding has a fewer number of windings than the secondary winding, for increasing voltage.

37. (Original) The superconducting article of claim 28, wherein the power device is a power generator, the power generator comprising a shaft coupled to a rotor comprising electromagnets containing rotor coils, and a stator comprising a conductive winding surrounding the rotor, wherein at least one of the winding and the rotor coils comprises said superconductive tape.

38. (Canceled)

39. (Canceled)

40. (Canceled)

41. (Canceled)

42. (Canceled)

43. (Canceled)

44. (Canceled)